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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/534,796
Filing Date	12 May 2005
First Named Inventor	Peter G. KLIMKO
Art Unit	
Examiner Name	
Attorney Docket Number	2443 US F

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Alcon Research, Ltd.		
Signature			
Printed name	Teresa J. Schultz		
Date	September, 2005	Reg. No.	40,526

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Barbara McKenzie	Date	1 September 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Peter G. KLIMKO et al.

Serial No: 10/534,796

Filed: 12 May 2005

Examiner:

Group Art Unit:

FOR: SUPEROXIDE DISMUTASE MIMICS FOR THE TREATMENT OF OCULAR  
DISORDERS AND DISEASES

**INFORMATION DISCLOSURE STATEMENT PURSUANT  
TO 37 C.F.R. 1.56, 1.97, AND 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. 1.56, 1.97, and 1.98, Applicants submit the patents, articles, and other information referenced in the specification as filed. The references are listed on the attached PTO Form 1449. Applicants are submitting copies of the foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2), copies of the U.S. patents are not enclosed.

A copy of the International Search Report issued in the PCT application, of which the present application is a 35 U.S.C. §371 application, is also included for the Examiner's convenience.

Applicants request that the listed patents, articles, and other information be considered during prosecution of this application and that they appear among the "References Cited" on any patent issuing herefrom.

Respectfully submitted,

1 September 2005  
Date

By: Teresa J. Schultz  
Teresa J. Schultz  
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Attorney Docket No.: 2443 US F



PTO/SB/08A (04-03)

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### Complete if Known

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	10/534,796
Filing Date	12 May 2005
First Named Inventor	Peter G. KLIMKO et al.
Art Unit	
Examiner Name	
Attorney Docket Number	2443 US F

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/ZF/	A1	US- 5,075,116	12/24/1991	LaHaye et al.	
	A2	US- 5,994,339	11/30/1999	Crapo et al.	
	A3	US- 6,046,188	04/04/2000	Malfroy-Camine et al.	
	A4	US- 6,127,356	10/03/2000	Crapo et al.	
	A5	US- 6,177,419	01/23/2001	Campbell et al.	
	A6	US- 6,180,620	01/30/2001	Salvemini	
	A7	US- 6,214,817	04/10/2001	Riley et al.	
	A8	US- 6,541,490	04/01/2003	Campbell et al.	
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			
	A19	US-			

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	<sup>6</sup>
/ZF/	A20	WO 98/58636 A1 and A2	12/30/1998	G.D. Searle		
/ZF/	A21	WO 00/07584 A2 and A3	02/17/2000	Wisconsin Alumni		
	A22	WO 00/19993 A2 and A3	04/13/2000	Brownlee		
/ZF/	A23	WO 00/72893 A2 and A3	12/07/2000	Monsanto Co.		
/ZF/	A24					
	A25					

Examiner Signature /Zohreh Fay/ (11/23/2009)

Date Considered

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

## Complete if Known

Application Number	10/534,796
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First Named Inventor	Peter G. KLIMKO et al.
Art Unit	
Examiner Name	
Attorney Docket Number	2443 US F

Sheet	2	of	4
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/ZF/	B1	Alkikmet R. et al., "Mutation of the Stargardt Disease Gene (ABCR) in Age-Related Macular Degeneration", Science, 277:1805-1807 (1997). Listed as "Dean" in application.	
	B2	Baker et. al., "Synthetic Combined Superoxide Dismutase/Catalase Mimetics Are Protective as a Delayed Treatment in a Rat Stroke Model: A Key Role for Reactive Oxygen Species in Ischemic Brain", J. Pharmacol. Exp. Ther., Vol. 284:215-221, 1998	
	B3	Ben-Shabat et al., "Fluorescent Pigments of the Retinal Pigment Epithelium and Age-Related Macular Degeneration", BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, 11:1533-1540, 2001. Listed as "Nakanishi" in application.	
	B4	Brownlee, M., "Biochemistry and Molecular Cell Biology of Diabetic Complications", Nature, Vol. 414:813-820, 2001	
	B5	Coppey, et al., "Effect of M40403 Treatment of Diabetic Rats on Endoneurial Blood Flow, Motor Nerve Conduction Velocity and Vascular Function of Epineural Arterioles of the Satic Nerve", British Journal of Pharmacology, Vol. 134:21-9, 2001 (M40403)	
	B6	Doctrow et. al., "Salen-Manganese Complexes as Catalytic Scavengers of Hydrogen Peroxide and Cytoprotective Agents: Structure-Activity Relationship Studies", J. Med. Chem., 45:4549-4558 (2002)	
	B7	Gürler, et al., "The Role of Oxidative Stress in Diabetic Retinopathy" Eye, Vol. 14:730-735, 2000	
	B8	Guzik, et al., "Mechanisms of Increased Vascular Superoxide Production in Human Diabetes Mellitus" Circulation, Vol. 105:1656-62, 2002	
	B9	Kimura K et al., "Genetic Association of Manganese Superoxide Dismutase With Exudative Age-related Macular Degeneration", AMERICAN JOURNAL OF OPHTHALMOLOGY, 130(6):769-773 (2000). Listed as "Isashiki" in the application.	
↓	B10	Mata NL et al., "Biosynthesis of a major lipofuscin fluorophore in mice and humans with ABCR-mediated retinal and macular degeneration", Proc. Natl. Acad. Sci. USA, 97(13):7154-7159 (2000). Listed as "Travis" in the application.	

Examiner Signature	/Zohreh Fay/ (11/23/2009)	Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3 of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/ZF/	C1	Melov et al., "Lifespan Extension and Rescue of Spongiform Encephalopathy in Superoxide Dismutase 2 Nullizygous Mice Treated with Superoxide Dismutase-Catalase Mimetics", J. Neurosci., Vol. 21:8348-8353, 2001	
	C2	Parish et al. (Nakanishi), "Isolation and one-step preparation of A2E and iso-A2E, fluorophores from human retinal pigment epithelium", Proc. Natl. Acad. Sci. USA, 95:14609-14613, 1998	
	C3	Piganelli, et al., "A Metalloporphyrin-Based Superoxide Dismutase Mimic Inhibits Adoptive Transfer of Autoimmune Diabetes by a Diabetogenic T-cell Clone," Diabetes, Vol. 51:347-55, 2002	
	C4	Salvemini D, et al., "A Nonpeptidyl Mimic of Superoxide Dismutase with Therapeutic Activity in Rats", Science, Vol. 286:304-306, 1999	
	C5	Salvemini, et al., "M40403 Superoxide Dismutase Mimetic", Drugs of The Future, 25(10):1027-1033, 2000	
	C6	Shamsi and Boulton, "Inhibition of RPE Lysosomal and Antioxidant Activity by the Age Pigment Lipofuscin", Invest. Ophthalmol. Vis. Sci., Vol. 42:3041-3046, 2001	
	C7	Shurtz-Swinski et al., "Involvement of Peripheral Polymorphonuclear Leukocytes in Oxidative Stress and Inflammation in Type 2 Diabetic Patients," Diabetes Care, Vol. 24:104-110, 2001	
	C8	Wang et al., "Tempol, A Superoxide Dismutase Mimic, Ameliorates Light-Induced Retinal Degeneration", Res. Commun. Mol. Pathol. Pharmacol., 89(3):291-305, 1995	
	C9	Wassell et al., "The Photoactivity of the Retinal Age Pigment Lipofuscin", J. Biol. Chem., 274:23826-23832, 1999	
	C10	Wihlmark et al., "Lipofuscin Accumulation In Cultured Retinal Pigment Epithelial Cells Causes Enhanced Sensitivity To Blue Light Irradiation", Free Radical Biol. Med., 22:1229-1234, 1997	

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<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	2443 US F

### NON PATENT LITERATURE DOCUMENTS

[illegible]

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